

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for	or form 1449A	/PTO		C	mpl t if Known	<u> </u>
				Application Number	09/531,969	
INFOR	RMATIO	N DISC	LOSURE	Filing Date	March 21, 2000	'n
STATI	IFORMATION DISCLOSUR TATEMENT BY APPLICAN	PLICANT	First Named Inventor	Jan Geliebter		
				Art Unit	1632	in
(us	e as many s	heets as ned	essary)	Examiner Name	Peter Paras, Jr.	
Sheet	1	of	2	Attorney Docket Number	96700/596	g

			_ U.S. PAT	ENT DOCUMENTS		ope
Examiner Initials		Document Number. Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	O
77	1	us- 6,239,117	05-29-2001	Christ et al.		
		US-				
		US-				_
		US-				_
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				_
		US-				
		US-				_
		US-				_
		US-				
	l	US-				_
		US-				

	FOREIGN PATENT DOCUMENTS									
Examiner Initials		Foreign Patent Document Country Code 3 - Number 4 - Kind Code 4 (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т"				
PP		WO 96/14748	23-05-1996	Gonzalez-Cadavid, Nes	ter F.	_				
-,										
						F				
						-				

Examiner Signature	Vite Parago	Date Considered	8/5/03	
·				

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the appropriate symbols as indication of the year of the relign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 8 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB
ar.

C mpl t if Kn wn Substitute for form 1449B/PTO 09/531,969 **Application Number** INFORMATION DISCLOSURE March 21, 2000 Filing Date Jan Geliebter STATEMENT BY APPLICANT First Named Inventor 1632 1633 Group Art Unit Poter Paras, Ir. Robert M. (use as many sheets as necessary) **Examiner Name** 96700/596 Sheet of Attorney Docket Number

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	E
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the titem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city apd/or country where nublished.	T ²
PUK	3	Channon, Keith M., et al., Adenoviral gene transfer of nitric oxide synthase: High level expression in human vascular cells, Cardiovascular Research 32 (1996) 962-972	
	4)	Fan, SF et al. BIOSIS Accession No. PREV199598178283, An analysis of the maxi-K+ (K-CA) channel in cultured human corporal smooth muscle cells. J. Urology 153: 818-825, 1995 [Abstract Only]	
	5)	Bredt, David S, Cloned and expressed nitric oxide synthase structurally resembles cytochrome P-450 reductase, Nature 351 (1991) 714-718	
	6	Magee, T et al. Cloning of a Novel Neuronal Nitric Oxide Synthase Expressed in Penis and Lower Uninary Tract, Biochemical Biophysical Res. Commun. 226 (1996) 145-151	
	7	Kim, Young Chan et al. CA Accession No. 122:77664 HCA, Experimental evidence for endothelium dependent relaxation and neuronal nitric oxide in corpus cavernosum, Yonsei Medical Journal 35(3): 308-13, 1994 [Abstract only]	
The state of the s	8√	Mills, TM et al. MEDLINE Accession No. NLM8735191, Sites of androgenic regulation of cavernosal blood pressure during penile erection in the rat, International Journal of Impotence Research 8: 29-34,1996 [Abstract Only]	
V	9 /	Christ, GJ et al. MEDLINE Accession No. NLM7688635, The role of gap junctions and ion channels in the modulation of electrical and chemical signals in human corpus cavernosum smooth muscle, Intern. J. Impotence Res. 5: 77-93, 1993 [Abstract Only]	
MK	10	Melman, A et al. The Successful Long-Term Treatment of Age Related Erectile Dysfunction with HSLO CDNA in Rats in Vivo, The Journal of Urology, Vol. 170, July 2003 (In Press)	
Examine Signatur	1/	Killy Date Considered 8/8/05	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in confirmance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

CIPE COA SURVEY

PTO/SB/08A (08-03) Approved for use through 07/31/2006, OM8 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete If Known

Application Number 09/531,969

Filing Date March 21, 2000

First Named Inventor Jan Geliebter

An Unit 1632

Examiner Name Peter Parac, Jr. Robert M. Kelly

Attorney Docket Number 96700/596

Examiner	Cite No.'	Document Number	U. S. PATENT D Publication Date	Name of Patentee or	Pages, Columns, Lines, Where		
Initials*	No.'	Number-Kind Code ^{2 (Finoury)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
		US-					
		US-	 		 		
		US-	 				
		US-	 -				
		US-	 		 		
		US-	 		 		
		US-	 		 		
		UŞ-	 				
		US-					
		US-	1				
		US-	1				
		US-	 				
		US-	 				
		US-	 				
		US-	+		,		
		US-	 				
		US-	 				
		US-	 				
		US-	 				

		FORE	IGN PATENT DOCL	JMENTS	· · · · · · · · · · · · · · · · · · ·	
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Π
		Country Code ³ Number ⁴ T Gnd Code ⁴ (if known)	MM-DD-YYYY	pproduction of the bookings.	Or Relevant Figures Appear	14
BUK	1	WO 98/33905	08-06-1998	Isis Innovation Ltd.	,	Г
MK	2	WO 97/18308	05-22-1997	The Wellcome Trust		
				Ltd. as Trustee of the		Г
	ļ			Wellcome Trust		
					,	

Examiner Signature 1. Kelly Date Considered 12/16/04

*EXAMINER: Initial if reference considered, whether of not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at mxw.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is ettached.

Translation is articlines. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 36 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. 8ox 1450, Alexandrie, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1459, Alexandrie, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

DENGRICO	e for form 1449/PT	Reduction A	ct of 1995, no persons	are required to respond to a collection	t and Trademark Office; U.S. DEPARTMENT OF COMMERC n of information unless it contains a valid OMB control numbe Complete if Known
				Application Number	09/531,969
			CLOSURE		March 21, 2000
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Jan Geliebter
	(Use as many :	sheets as n	acossanvi	Art Unit	1632
				Examiner Name	Peter Paras, Jr. Robert M. Kelly
Sheet	2	of	2	Attorney Docket Number	96700/596

		NON PATENT LITERATURE DOCUMENTS	
Examiner Cite No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RUK 3		HUARD J. ET AL., entitled "Myoblast injection into the Bladder Wall: A Possible Method of Modulating Detrusor Contractility and Cell-Mediated Gene Therapy for Bladder Dysfunction," Journal of Urology, Vol. 159, No. 5, May 30, 1998., page 16, Abstact	
}		X P002120829, Abstract.	
	4	CARVALHO A.C. ET AL., entitled "Gap Junctions Formed of Connexin 43 are Found Between Smooth Muscle Cells of Human Corpus Cavernosum," Journal of Urology, Vol. 149, No. 6, 1993, pgs. 1568-1575, XP002273927, Abstract.	
	5	MORENO A. P. ET AL., entitled "Gap Junctions Between Human Corpus Cavernosum Smooth Muscle Cells: Gating Properties and Unitary Conductance," American Journal of	
	6	GROSSMAN H. ET AL., entitled "Decreased Connexin Expression and Intercellular Communication in Human Bladder Cancer Cells," Cancer Research, Vol. 54, No. 11, 1994, pgs. 3062-3065.	
	7	SIEMER C. ET Al., entitled "Characterization of Maxi K Channels in Smooth Muscle Cells From Rat Urinary Bladder," Pfluegers Archiv European Journal of Physiology, Vol. 434, No. 5 Suppl., 1997, p. R102, XP008028610, Abstract.	
$\sqrt{}$	8	DAMASER M. S. ET AL., entitled "Calcium Regulation of Urinary Bladder Function," Journal of Urology, Vol. 157, No. 2, 1997, pgs. 732-738, XP002282784, Abstract.	
RUX	9	LEVIN R.M. ET AL., entitled "Etiology of Bladder Dysfunction Secondary to Partial Outlet Obstruction. Calcium Disregulation in Bladder Power Generation and the Ability to Perform Work," Scandinavian Journal of Urology and Nephrology Supplementum, Vol. 0,	
RUK	۷	No. 184, 1997, pgs. 43-50, XP002282783, Abstract. No. 184, 1997, pg 43-50, Abstract	
			لــــــــــــــــــــــــــــــــــــــ

	/	<u> </u>	,
Examiner	1 1/7/	Date	/ / /
Signature /	. K/L	Considered	12/16/04
PENAMINED AND A			//

*EXAMINER: Initial if reference considered, whether or not citation is la conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time wit vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

are duplicates

PTO/S8/088 (08-03) Approved for use through 07/31/2008, OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

ADEL	e for form 144	OT CA		DISCLOSURE Filling Date First Named Inven Art Unit Examiner Name		Complete if Known		
	910110111111	JI - 10				Application Number	09/531,969	
INFO	RMAT	101	N DIS	CLC	SURE	Filing Date	March 21, 2000	
STA	TEMEN	ITI	BY A	PPL	ICANT	First Named Inventor	Jan Geliebter	***
	## 	-	4			Art Unit	1632	
	(Use as m	any sn	6612 B2 U	ecessary	0	Examiner Name	Robert M. Kelly	
Sheet	*	1	of	×	1	Attorney Docket Number	96700/596	1

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Ţ²
RMK	3-	HUARD, J. et al. Myoblast injection into the Bladder Wall: A Possible Method of Medulating Detrusor Contractility and Cell-Mediated Gene Therapy for Bladder Dysfunction. Journal of Urology, Vol. 159, No. 5, May 30, 1998, page 16, Abstract.	
RUK	+	CARVALHO A C DE CAMPOS, et al Gap Junctions Formed of Connexin 43 are Found Between Smooth Muscle Cells of Human Corpus Cavernosum. Journal of Urology, Vol. 149, No. 6, 1993, pgs. 1568-1575, Abstract.	-
	5	MORENO, A.P. et al. Gap Junctions Between Human Corpus Cavernosum Smooth Muscle Gells: Gating Properties and Unitary Conductance. American Journal of Physiology, Vol. 264, No. 1 Part 1, 1993, pgs. C80-C92, Abstract.	
	6	GROSSMAN, B.H. et al. Decreased Connexin in Expression and Intercellular Communication in Human Bladder Cancer Cells. Cancer Research, Vol. 54, No. 11, 1994, pgs. 3062-3065.	
	7	SIEMER, P. et al. Characterization of Maxi K Channels in Smooth Muscle Cells From Rat Urinary Bladder, Pfluegers Archiv Suropean Journal of Physiology, Vol. 434, No. 5 Suppl., 1997, p. R102, Abstract.	
V	8	DAMASER, M.S. et al. Calcium Regulation of Urinary Bladder Function. Journal of Urology 157(2): 732-8, 1997, Abstract.	
RMK	-9-	LEVIN, R.M. et al. Etiology of Bladder Dysfunction Secondary to Partial Outlet Obstruction. Calcium Disregulation in Bladder Power Generation and the Ability to Perform Work. Scand. J. Urol. Nephrol. Suppl., No. 184, 1997, pgs. 43-50, Abstract	
		·	

Examiner	O_1	///	Date	11/11/20
Signature	Kober 1.K	uly	Considered	4/19108

*EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application term to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.